(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 28.03.2001 Bulletin 2001/13

(51) Int Cl.7: **H01R 23/70**

(43) Date of publication A2: 21.10.1998 Bulletin 1998/43

(21) Application number: 98650023.9

(22) Date of filing: 15.04.1998

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 18.04.1997 JP 11507497

(71) Applicant: HIROSE ELECTRIC CO., LTD. Shinagawa-ku Tokyo (JP)

(72) Inventor: Shimizu, Shinji Shinagawa-ku, Tokyo (JP)

(74) Representative: Coyle, Philip Aidan et al
F. R. KELLY & CO.
27 Clyde Road
Ballsbridge
Dublin 4 (IE)

(54) Circuit board electrical connector

(57) A circuit board electrical connector for a circuit board (3) having an attaching opening (3A), which comprises a housing (2); an attaching leg (5) having a me-

tallic surface and projecting downwardly from the housing into the attaching opening; and a solder retention area (5A) in the attaching leg so that solder flows into an upper portion of the attaching opening.

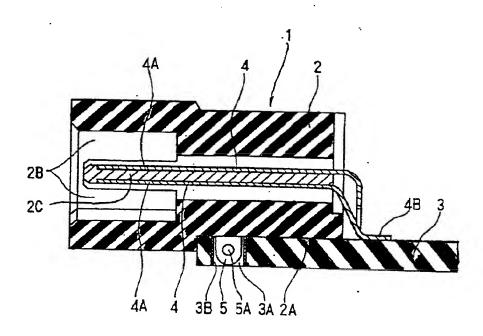


FIG. 1



EUROPEAN SEARCH REPORT

Application Number EP 98 65 0023

	DOCUMENTS CONSID	ERED TO BE RELEVANT	·		
Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
A	EP 0 147 039 A (AMP 3 July 1985 (1985-0 * abstract; claims;	7-03)	1-4	H01R23/70	
A	WO 94 23474 A (SHU (US)) 13 October 19 * abstract; claims;	1-4			
A	DE 37 23 347 A (HAR 26 January 1989 (19 * abstract; claims;		1-4		
Α	US 5 249 983 A (HIRAI YUJI) 5 October 1993 (1993-10-05) * figures 5A,5B,9B *		1-4		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
				H01R	
			_		
	The present search report has				
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	6 February 2001	Dur	and, F	
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with ano ument of the same category	E : earlier patent do after the filing da	cument, but publ te n the application	ished on, or	
O : non	nnological background I-written disclosure rmediate document	& : member of the si document		y, corresponding	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 65 0023

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

06-02-2001

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0147039	A	03-07-1985	BR DE DK ES FI JP JP NO	8406322 A 8436267 U 594284 A 282796 U 844437 A 2028236 B 60140688 A 844464 A	08-10-198 14-03-198 14-06-198 01-05-198 14-06-198 22-06-199 25-07-198 14-06-198
WO 9423474	A	13-10-1994	US DE DE EP SG US	4583807 A 69418867 D 69418867 T 0692149 A 48095 A 5616035 A	22-04-198 08-07-199 07-10-199 17-01-199 17-04-199 01-04-199
DE 3723347	Α	26-01-1989	EP	0290827 A	17-11-198
US 5249983	Α	05-10-1993	NONE		

FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82